

CRF Errors Corrected by the STIC Systems Branch

PCT.

Serial Number: 09/807, 499

CRF Processor: _____ Date: _____
 Edited by: _____
 Verified by: _____ (STIC staff)

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: **ENTERED**
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: _____
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: _____
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: _____
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: _____
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: _____
- ☒ Deleted: ☒ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file;
☐ page numbers throughout text; ☐ other invalid text, such as _____
- ☐ Inserted mandatory headings, specifically: _____
- ☐ Corrected an obvious error in the response, specifically: _____
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: _____
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____
- ☐ Other: _____

***Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.**

PCT

RAW SEQUENCE LISTING

DATE: 05/11/2001

PATENT APPLICATION: US/09/807,499

TIME: 13:34:33

Input Set : A:\Cpg.pto

Output Set: N:\CRF3\05112001\I807499.raw

see p. 5

3 <110> APPLICANT: Rosenmund, Christian
 4 Russo, Sebastian
 6 <120> TITLE OF INVENTION: Non-desensitizing AMPA-Receptors
 8 <130> FILE REFERENCE: D2234PCT
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/807,499
 C--> 11 <141> CURRENT FILING DATE: 2001-04-13
 13 <150> PRIOR APPLICATION NUMBER: DE 198 47 064.9
 14 <151> PRIOR FILING DATE: 1998-10-13
 16 <160> NUMBER OF SEQ ID NOS: 22
 18 <170> SOFTWARE: PatentIn Ver. 2.1
 20 <210> SEQ ID NO: 1
 21 <211> LENGTH: 907
 22 <212> TYPE: PRT
 23 <213> ORGANISM: Rattus norvegicus
 25 <400> SEQUENCE: 1
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 27 1 5 10 15
 29 Val Gly Ala Asn Phe Pro Asn Asn Ile Gln Ile Gly Gly Leu Phe Pro
 30 20 25 30
 32 Asn Gln Gln Ser Gln Glu His Ala Ala Phe Arg Phe Ala Leu Ser Gln
 33 35 40 45
 35 Leu Thr Glu Pro Pro Lys Leu Leu Pro Gln Ile Asp Ile Val Asn Ile
 36 50 55 60
 38 Ser Asp Ser Phe Glu Met Thr Tyr Arg Phe Cys Ser Gln Phe Ser Lys
 39 65 70 75 80
 41 Gly Val Tyr Ala Ile Phe Gly Phe Tyr Glu Arg Arg Thr Val Asn Met
 42 85 90 95
 44 Leu Thr Ser Phe Cys Gly Ala Leu His Val Cys Phe Ile Thr Pro Ser
 45 100 105 110
 47 Phe Pro Val Asp Thr Ser Asn Gln Phe Val Leu Gln Leu Arg Pro Glu
 48 115 120 125
 50 Leu Gln Glu Ala Leu Ile Ser Ile Ile Asp His Tyr Lys Trp Gln Thr
 51 130 135 140
 53 Phe Val Tyr Ile Tyr Asp Ala Asp Arg Gly Leu Ser Val Leu Gln Arg
 54 145 150 155 160
 56 Val Leu Asp Thr Ala Ala Glu Lys Asn Trp Gln Val Thr Ala Val Asn
 57 165 170 175
 59 Ile Leu Thr Thr Thr Glu Glu Gly Tyr Arg Met Leu Phe Gln Asp Leu
 60 180 185 190
 62 Glu Lys Lys Lys Glu Arg Leu Val Val Val Asp Cys Glu Ser Glu Arg
 63 195 200 205
 65 Leu Asn Ala Ile Leu Gly Gln Ile Val Lys Leu Glu Lys Asn Gly Ile
 66 210 215 220
 68 Gly Tyr His Tyr Ile Leu Ala Asn Leu Gly Phe Met Asp Ile Asp Leu
 69 225 230 235 240
 71 Asn Lys Phe Lys Glu Ser Gly Ala Asn Val Thr Gly Phe Gln Leu Val
 72 245 250 255

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74 Asn Tyr Thr Asp Thr Ile Pro Ala Arg Ile Met Gln Gln Trp Arg Thr
75           260           265           270
77 Ser Asp Ser Arg Asp His Thr Arg Val Asp Trp Lys Arg Pro Lys Tyr
78           275           280           285
80 Thr Ser Ala Leu Thr Tyr Asp Gly Val Lys Val Met Ala Glu Ala Phe
81           290           295           300
83 Gln Ser Leu Arg Arg Gln Arg Ile Asp Ile Ser Arg Arg Gly Asn Ala
84 305           310           315           320
86 Gly Asp Cys Leu Ala Asn Pro Ala Val Pro Trp Gly Gln Gly Ile Asp
87           325           330           335
89 Ile Gln Arg Ala Leu Gln Gln Val Arg Phe Glu Gly Leu Thr Gly Asn
90           340           345           350
92 Val Gln Phe Asn Glu Lys Gly Arg Arg Thr Asn Tyr Thr Leu His Val
93           355           360           365
95 Ile Glu Met Lys His Asp Gly Ile Arg Lys Ile Gly Tyr Trp Asn Glu
96           370           375           380
98 Asp Asp Lys Phe Val Pro Ala Ala Thr Asp Ala Gln Ala Gly Gly Asp
99 385           390           395           400
101 Asn Ser Ser Val Gln Asn Arg Thr Tyr Ile Val Thr Thr Ile Leu Glu
102           405           410           415
104 Asp Pro Tyr Val Met Leu Lys Lys Asn Ala Asn Gln Phe Glu Gly Asn
105           420           425           430
107 Asp Arg Tyr Glu Gly Tyr Cys Val Glu Leu Ala Ala Glu Ile Ala Lys
108           435           440           445
110 His Val Gly Tyr Ser Tyr Arg Leu Glu Ile Val Ser Asp Gly Lys Tyr
111           450           455           460
113 Gly Ala Arg Asp Pro Asp Thr Lys Ala Trp Asn Gly Met Val Gly Glu
114 465           470           475           480
116 Leu Val Tyr Gly Arg Ala Asp Val Ala Val Ala Pro Leu Thr Ile Thr
117           485           490           495
119 Leu Val Arg Glu Glu Val Ile Asp Phe Ser Lys Pro Phe Met Ser Leu
120           500           505           510
122 Gly Ile Ser Ile Met Ile Lys Lys Pro Gln Lys Ser Lys Pro Gly Val
123           515           520           525
125 Phe Ser Phe Leu Asp Pro Leu Ala Tyr Glu Ile Trp Met Cys Ile Val
126           530           535           540
128 Phe Ala Tyr Ile Gly Val Ser Val Val Leu Phe Leu Val Ser Arg Phe
129 545           550           555           560
131 Ser Pro Tyr Glu Trp His Ser Glu Glu Phe Glu Glu Gly Arg Asp Gln
132           565           570           575
134 Thr Thr Ser Asp Gln Ser Asn Glu Phe Gly Ile Phe Asn Ser Leu Trp
135           580           585           590
137 Phe Ser Leu Gly Ala Phe Met Gln Gln Gly Cys Asp Ile Ser Pro Arg
138           595           600           605
140 Ser Leu Ser Gly Arg Ile Val Gly Gly Val Trp Trp Phe Phe Thr Leu
141           610           615           620
143 Ile Ile Ile Ser Ser Tyr Thr Ala Asn Leu Ala Ala Phe Leu Thr Val
144 625           630           635           640
146 Glu Arg Met Val Ser Pro Ile Glu Ser Ala Glu Asp Leu Ala Lys Gln

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147          645          650          655
149 Thr Glu Ile Ala Tyr Gly Thr Leu Glu Ala Gly Ser Thr Lys Glu Phe
150          660          665          670
152 Phe Arg Arg Ser Lys Ile Ala Val Phe Glu Lys Met Trp Thr Tyr Met
153          675          680          685
155 Lys Ser Ala Glu Pro Ser Val Phe Val Arg Thr Thr Glu Glu Gly Met
156          690          695          700
158 Ile Arg Val Arg Lys Ser Lys Gly Lys Tyr Ala Tyr Leu Leu Glu Ser
159 705          710          715          720
161 Thr Met Asn Glu Tyr Ile Glu Gln Arg Lys Pro Cys Asp Thr Met Lys
162          725          730          735
164 Val Gly Gly Asn Leu Asp Ser Lys Gly Tyr Gly Ile Ala Thr Pro Lys
165          740          745          750
167 Gly Ser Ala Leu Arg Asn Pro Val Asn Leu Ala Val Leu Lys Leu Asn
168          755          760          765
170 Glu Gln Gly Leu Leu Asp Lys Leu Lys Asn Lys Trp Trp Tyr Asp Lys
171          770          775          780
173 Gly Glu Cys Gly Ser Gly Gly Gly Asp Ser Lys Asp Lys Thr Ser Ala
174 785          790          795          800
176 Leu Ser Leu Ser Asn Val Ala Gly Val Phe Tyr Ile Leu Ile Gly Gly
177          805          810          815
179 Leu Gly Leu Ala Met Leu Val Ala Leu Ile Glu Phe Cys Tyr Lys Ser
180          820          825          830
182 Arg Ser Glu Ser Lys Arg Met Lys Gly Phe Cys Leu Ile Pro Gln Gln
183          835          840          845
185 Ser Ile Asn Glu Ala Ile Arg Thr Ser Thr Leu Pro Arg Asn Ser Gly
186          850          855          860
188 Ala Gly Ala Ser Gly Gly Gly Gly Ser Gly Glu Asn Gly Arg Val Val
189 865          870          875          880
191 Ser Gln Asp Phe Pro Lys Ser Met Gln Ser Ile Pro Cys Met Ser His
192          885          890          895
194 Ser Ser Gly Met Pro Leu Gly Ala Thr Gly Leu
195          900          905
199 <210> SEQ ID NO: 2
200 <211> LENGTH: 883
201 <212> TYPE: PRT
202 <213> ORGANISM: Rattus norvegicus
204 <400> SEQUENCE: 2
205 Met Gln Lys Ile Met His Ile Ser Val Leu Leu Ser Pro Val Leu Trp
206 1          5          10          15
208 Gly Leu Ile Phe Gly Val Ser Ser Asn Ser Ile Gln Ile Gly Gly Leu
209          20          25          30
211 Phe Pro Arg Gly Ala Asp Gln Glu Tyr Ser Ala Phe Arg Val Gly Met
212          35          40          45
214 Val Gln Phe Ser Thr Ser Glu Phe Arg Leu Thr Pro His Ile Asp Asn
215          50          55          60
217 Leu Glu Val Ala Asn Ser Phe Ala Val Thr Asn Ala Phe Cys Ser Gln
218 65          70          75          80
220 Phe Ser Arg Gly Val Tyr Ala Ile Phe Gly Phe Tyr Asp Lys Lys Ser

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221				85					90					95
223	Val	Asn	Thr	Ile	Thr	Ser	Phe	Cys	Gly	Thr	Leu	His	Val	Ser
224				100					105				110	
226	Thr	Pro	Ser	Phe	Pro	Thr	Asp	Gly	Thr	His	Pro	Phe	Val	Ile
227				115					120				125	
229	Arg	Pro	Asp	Leu	Lys	Gly	Ala	Leu	Leu	Ser	Leu	Ile	Glu	Tyr
230				130					135				140	
232	Trp	Asp	Lys	Phe	Ala	Tyr	Leu	Tyr	Asp	Ser	Asp	Arg	Gly	Leu
233	145								150				155	
235	Leu	Gln	Ala	Val	Leu	Asp	Ser	Ala	Ala	Glu	Lys	Lys	Trp	Gln
236				165					170				175	
238	Ala	Ile	Asn	Val	Gly	Asn	Ile	Asn	Asn	Asp	Lys	Lys	Asp	Glu
239				180					185				190	
241	Arg	Ser	Leu	Phe	Gln	Asp	Leu	Glu	Leu	Lys	Lys	Glu	Arg	Arg
242				195					200				205	
244	Leu	Asp	Cys	Glu	Arg	Asp	Lys	Val	Asn	Asp	Ile	Val	Asp	Gln
245				210					215				220	
247	Thr	Ile	Gly	Lys	His	Val	Lys	Gly	Tyr	His	Tyr	Ile	Ile	Ala
248	225								230				235	
250	Gly	Phe	Thr	Asp	Gly	Asp	Leu	Leu	Lys	Ile	Gln	Phe	Gly	Gly
251				245					250				255	
253	Val	Ser	Gly	Phe	Gln	Ile	Val	Asp	Tyr	Asp	Asp	Ser	Leu	Val
254				260					265				270	
256	Phe	Ile	Glu	Arg	Trp	Ser	Thr	Leu	Glu	Glu	Lys	Glu	Tyr	Pro
257				275					280				285	
259	His	Thr	Ala	Thr	Ile	Lys	Tyr	Thr	Ser	Ala	Leu	Thr	Tyr	Asp
260				290					295				300	
262	Gln	Val	Met	Thr	Glu	Ala	Phe	Arg	Asn	Leu	Arg	Lys	Gln	Arg
263	305								310				315	
265	Ile	Ser	Arg	Arg	Gly	Asn	Ala	Gly	Asp	Cys	Leu	Ala	Asn	Pro
266				325					330				335	
268	Pro	Trp	Gly	Gln	Gly	Val	Glu	Ile	Glu	Arg	Ala	Leu	Lys	Gln
269				340					345				350	
271	Val	Glu	Gly	Leu	Ser	Gly	Asn	Ile	Lys	Phe	Asp	Gln	Asn	Gly
272				355					360				365	
274	Ile	Asn	Tyr	Thr	Ile	Asn	Ile	Met	Glu	Leu	Lys	Thr	Asn	Gly
275				370					375				380	
277	Lys	Ile	Gly	Tyr	Trp	Ser	Glu	Val	Asp	Lys	Met	Val	Val	Thr
278	385								390				395	
280	Glu	Leu	Pro	Ser	Gly	Asn	Asp	Thr	Ser	Gly	Leu	Glu	Asn	Lys
281				405					410				415	
283	Val	Val	Thr	Thr	Ile	Leu	Glu	Ser	Pro	Tyr	Val	Met	Met	Lys
284				420					425				430	
286	His	Glu	Met	Leu	Glu	Gly	Asn	Glu	Arg	Tyr	Glu	Gly	Tyr	Cys
287				435					440				445	
289	Leu	Ala	Ala	Glu	Ile	Ala	Lys	His	Cys	Gly	Phe	Lys	Tyr	Lys
290				450					455				460	
292	Ile	Val	Gly	Asp	Gly	Lys	Tyr	Gly	Ala	Arg	Asp	Ala	Asp	Thr
293	465								470				475	
														480

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295 Trp Asn Gly Met Val Gly Glu Leu Val Tyr Gly Lys Ala Asp Ile Ala
296                               485                               490                               495
298 Ile Ala Pro Leu Thr Ile Thr Leu Val Arg Glu Glu Val Ile Asp Phe
299                               500                               505                               510
301 Ser Lys Pro Phe Met Ser Leu Gly Ile Ser Ile Met Ile Lys Lys Pro
302                               515                               520                               525
304 Gln Lys Ser Lys Pro Gly Val Phe Ser Phe Leu Asp Pro Leu Ala Tyr
305                               530                               535                               540
307 Glu Ile Trp Met Cys Ile Val Phe Ala Tyr Ile Gly Val Ser Val Val
308 545                               550                               555                               560
310 Leu Phe Leu Val Ser Arg Phe Ser Pro Tyr Glu Trp His Thr Glu Glu
311                               565                               570                               575
313 Phe Glu Asp Gly Arg Glu Thr Gln Ser Ser Glu Ser Thr Asn Glu Phe
314                               580                               585                               590
316 Gly Ile Phe Asn Ser Leu Trp Phe Ser Leu Gly Ala Phe Met Arg Gln
317                               595                               600                               605
319 Gly Cys Asp Ile Ser Pro Arg Ser Leu Ser Gly Arg Ile Val Gly Gly
320                               610                               615                               620
322 Val Trp Trp Phe Phe Thr Leu Ile Ile Ile Ser Ser Tyr Thr Ala Asn
323 625                               630                               635                               640
325 Leu Ala Ala Phe Leu Thr Val Glu Arg Met Val Ser Pro Ile Glu Ser
326                               645                               650                               655
328 Ala Glu Asp Leu Ser Lys Gln Thr Glu Ile Ala Tyr Gly Thr Leu Asp
329                               660                               665                               670
331 Ser Gly Ser Thr Lys Glu Phe Phe Arg Arg Ser Lys Ile Ala Val Phe
332                               675                               680                               685
334 Asp Lys Met Trp Thr Tyr Met Arg Ser Ala Glu Pro Ser Val Phe Val
335                               690                               695                               700
337 Arg Thr Thr Ala Glu Gly Val Ala Arg Val Arg Lys Ser Lys Gly Lys
338 705                               710                               715                               720
340 Tyr Ala Tyr Leu Leu Glu Ser Thr Met Asn Glu Tyr Ile Glu Gln Arg
341                               725                               730                               735
343 Lys Pro Cys Asp Thr Met Lys Val Gly Gly Asn Leu Asp Ser Lys Gly
344                               740                               745                               750
346 Tyr Gly Ile Ala Thr Pro Lys Gly Ser Ser Leu Gly Asn Ala Val Asn
347                               755                               760                               765
349 Leu Ala Val Leu Lys Leu Asn Glu Gln Gly Leu Leu Asp Lys Leu Lys
350                               770                               775                               780
352 Asn Lys Trp Trp Tyr Asp Lys Gly Glu Cys Gly Ser Gly Gly Gly Asp
353 785                               790                               795                               800
355 Ser Lys Glu Lys Thr Ser Ala Leu Ser Leu Ser Asn Val Ala Gly Val
356                               805                               810                               815
358 Phe Tyr Ile Leu Val Gly Gly Leu Gly Leu Ala Met Leu Val Ala Leu
359                               820                               825                               830
361 Ile Glu Phe Cys Tyr Lys Ser Arg Ala Glu Ala Lys Arg Met Lys Val
362                               835                               840                               845
364 Ala Lys Asn Pro Gln Asn Ile Asn Pro Ser Ser Ser Gln Asn Ser Gln
365                               850                               855                               860
367 Asn Phe Ala Thr Tyr Lys Glu Gly Tyr Asn Val Tyr Gly Ile Glu Ser

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/807,499

DATE: 05/11/2001

TIME: 13:34:34

Input Set : A:\Cpg.pto

Output Set: N:\CRF3\05112001\I807499.raw

L:10 M:270 C: Current Application Number differs, Replaced Application Number

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:1858 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11

L:1917 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12

L:1975 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13

L:2033 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14

L:2091 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15

L:2151 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16

L:2210 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17

L:2268 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18

L:2326 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19

L:2386 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20